

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/653,681B
Source: TFW16
Date Processed by STIC: 7/14/05

ENTERED

**CRF ERRORS EDITED BY THE STIC SYSTEMS
Branch**

Serial Number: 10/653,681B

CRF Edit Date:

Edited by:

7/15/05

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

✓ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

5

Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

Sequence 5 - reduced blank spaces between groups
of 10 bases



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/653,681B

DATE: 07/15/2005

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\07152005\J653681B.raw

3 <110> APPLICANT: DAI, KEN-SHWO
 5 <120> TITLE OF INVENTION: HUMAN ARL-RELATED GENE VARIANTS ASSOCIATED WITH CANCER
 7 <130> FILE REFERENCE: U014798-3
 9 <140> CURRENT APPLICATION NUMBER: 10/653,681B
 10 <141> CURRENT FILING DATE: 2003-09-02
 12 <160> NUMBER OF SEQ ID NOS: 6
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1090
 18 <212> TYPE: DNA
 19 <213> ORGANISM: ARTIFICIAL SEQUENCE
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 25 <220> FEATURE:
 26 <221> NAME/KEY: CDS
 27 <222> LOCATION: (70)..(333)
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 33 Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro
 34 1 5 10
 36 att gtg ggc ctg ggc act tgg aag tct cct ctc ggc aaa gtg aaa gaa 159
 37 Ile Val Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu
 38 15 20 25 30
 40 gca gtg aag gtg gcc att gat gca gga tat cgg cac att gac tgt gcc 207
 41 Ala Val Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala
 42 35 40 45
 44 tat gtc tat cag aat gaa cat gaa gtg ggg gaa gcc atc caa gag aag 255
 45 Tyr Val Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys
 46 50 55 60
 48 atc caa gag aag gct gtg aag cgg gag gac ctg ttc atc gtc agc aag 303
 49 Ile Gln Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys
 50 65 70 75
 52 ttg tgg ccc act tcc aga tcg aga agc tct tgaacaaacc tggactgaaa 353
 53 Leu Trp Pro Thr Ser Arg Ser Arg Ser Ser
 54 80 85
 56 tataaaccag tgactaacca ggttgagtgt cacccataacc tcacgcaggaa gaaactgatc 413
 58 cagtaactgcc actccaaggcatcaccgtt acggcctaca gccccctggg ctctccggat 473
 60 agaccttggg ccaaggccaga agacccttcc ctgctggagg atcccaagat taaggagatt 533
 62 gctgcaaagc aaaaaaaaaac cgccggccag gttctgatcc gtttccatat ccagaggaat 593
 64 gtgattgtca tccccaaagtc tgtgacacca gcacgcattt tgagaacat tcaggtcttt 653
 66 gactttaaat tgagtgtatga ggagatggca accataactca gcttcaacag aaactggagg 713
 68 gcctgtaaacg tggatgtatca ctctcatttgc gaagactatc ctttcgtatgc agaatattga 773

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PATENT APPLICATION: US/10/653,681B

DATE: 07/15/2005

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

70 ggttgaatct cctggtgaga ttatacagga gattctcttt ctgcgtgaa gtgtgactac 833
 72 ctccactcat gtccccattt agccaagctt atttaagatc acagtgaact tagtcctgtt 893
 74 atagacgaga atcgagggtgc tggttagac atttatttct gtatgttcaa ctaggatcag 953
 76 aatatcacag aaaagcatgg ctgaaataag gaaaatgacaa tttttccac ttatctgatc 1013
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 85 <212> TYPE: PRT
 86 <213> ORGANISM: ARTIFICIAL SEQUENCE
 88 <220> FEATURE:
 89 <223> OTHER INFORMATION: PEPTIDE ENCODED BY VARIANT OF HUMAN ALDOSE REDUCTASE-LIKE

GENE

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 94 1 5 10 15
 97 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
 98 20 25 30
 101 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
 102 35 40 45
 105 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
 106 50 55 60
 109 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
 110 65 70 75 80
 113 Pro Thr Ser Arg Ser Arg Ser Ser
 114 85

117 <210> SEQ ID NO: 3
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 122 <220> FEATURE:
 123 <223> OTHER INFORMATION: VARIANT OF HUMAN ALDOSE REDUCTASE-LIKE GENE
 126 <220> FEATURE:
 127 <221> NAME/KEY: CDS
 128 <222> LOCATION: (70)..(804)
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 134 Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro
 135 1 5 10
 137 att gtg ggc ctg ggc act tgg aag tct ctc ggc aaa gtg aaa gaa 159
 138 Ile Val Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu
 139 15 20 25 30
 141 gca gtg aag gtg gcc att gat gca gga tat cgg cac att gac tgt gcc 207
 142 Ala Val Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala
 143 35 40 45
 145 tat gtc tat cag aat gaa cat gaa gtg ggg gaa gcc atc caa gag aag 255
 146 Tyr Val Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys
 147 50 55 60
 149 atc caa gag aag gct gtg aag cgg gag gac ctg ttc atc gtc agc aag 303

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/653,681B

DATE: 07/15/2005

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

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154	Leu Trp Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu			
155	80	85	90	
157	aag acc ctc aag gac ctg aag ctg agc tat ctg gac gtc tat ctt att	399		
158	Lys Thr Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile			
159	95	100	105	110
161	cac tgg cca cag gga ttc aag tct ggg gat gac ctt ttc ccc aaa gat	447		
162	His Trp Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp			
163	115	120	125	
165	gat aaa ggt aat gcc atc ggt gga aaa gca acg ttc ttg gat gcc tgg	495		
166	Asp Lys Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp			
167	130	135	140	
169	gag gcc atg gag gag ctg gtg gat gag ggg ctg gtg aaa gcc ctt ggg	543		
170	Glu Ala Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly			
171	145	150	155	
173	gtc tcc aat ttc agc cac ttc cag atc gag aag ctc ttg aac aaa cct	591		
174	Val Ser Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro			
175	160	165	170	
177	gga ctg aaa tat aaa cca gtc act aac cag gtt gag tgt cac cca tac	639		
178	Gly Leu Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr			
179	175	180	185	190
181	ctc acg cag gag aaa ctg atc cag tac tgc cac tcc aag ggc atc acc	687		
182	Leu Thr Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr			
183	195	200	205	
185	gtt acg gcc tac agc ccc ctg ggc tct ccg gat aga cct ttg gcc aag	735		
186	Val Thr Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys			
187	210	215	220	
189	cca gaa gac cct tcc ctg ctg gag gat ccc aag att aag gag att gct	783		
190	Pro Glu Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala			
191	225	230	235	
193	gca aag cac tcc cca agt ctg tgacaccaggc acgcattgtt gagaacattc	834		
194	Ala Lys His Ser Pro Ser Leu			
195	240	245		
197	aggtctttga cttaaattg agtgatgagg agatggcaac catactcagc ttcaacagaa	894		
199	actggaggc ctgtaacgtg ttgcaatctt ctcatttggaa agactatccc ttcatgtgcag	954		
201	aatattgagg ttgaatctcc ttgtgagatt atacaggaga ttctctttct tcgctgaagt	1014		
203	gtgactacct ccactcatgt cccatTTAG ccaagcttat ttaagatcac agtgaactta	1074		
205	gtcctgttat agacgagaat cgaggtgtt ttttagacat ttatttctgt atgttcaact	1134		
207	aggatcgaaa tatcacagaa aagcatggc tgaataagga aatgacaatt ttttccactt	1194		
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217	<213> ORGANISM: ARTIFICIAL SEQUENCE			
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

222 <400> SEQUENCE: 4
 224 Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro Ile Val
 225 1 5 10 15
 228 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
 229 20 25 30
 232 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
 233 35 40 45
 236 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
 237 50 55 60
 240 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
 241 65 70 75 80
 244 Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr
 245 85 90 95
 248 Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp
 249 100 105 110
 252 Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys
 253 115 120 125
 256 Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala
 257 130 135 140
 260 Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser
 261 145 150 155 160
 264 Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu
 265 165 170 175
 268 Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr
 269 180 185 190
 272 Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr
 273 195 200 205
 276 Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu
 277 210 215 220
 280 Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys
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 289 <211> LENGTH: 1337
 291 <212> TYPE: DNA
 293 <213> ORGANISM: HOMO SAPIEN
 295 <220> FEATURE:
 297 <223> OTHER INFORMATION: HUMAN ARL GENE
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 303 ctggggactt ggaagtctcc tctcgccaaa gtgaaagaag cagtgaaggt ggccattgtat 180
 304 gcaggatatac ggcacattga ctgtgcctat gtctatcaga atgaacatga agtggggaa 240
 305 gccatccaag agaagatcca agagaaggct gtgaagcggg aggacctgtt catcgctcagc 300
 306 aagttgtggc ccactttctt tgagagaccc cttgtgagga aagccttga gaagaccctc 360
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/653,681B

DATE: 07/15/2005

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

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312	cagtactgcc	actccaaggg	catcaccgtt	acggcctaca	gccccctggg	ctctccggat	720										
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317	gcctgttaacg	tgttgcataatc	ctctcatttgc	gaagactatc	ccttcgatgc	agaatattga	1020										
318	ggttgaatct	cctggtgaga	ttatacagga	gattctctt	cttcgctgaa	gtgtgactac	1080										
319	ctccactcat	gtcccatttt	agccaaagtt	atttaagatc	acagtgaact	tagtcctgtt	1140										
320	atagacgaga	atcgaggtgc	tgttttagac	atttatttct	gtatgttcaa	ctaggatcag	1200										
321	aatatcacag	aaaagcatgg	cttgaataag	gaaatgacaa	tttttccac	ttatctgatc	1260										
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348	Tyr	Gln	Asn	Glu	His	Glu	Val	Gly	Glu	Ala	Ile	Gln	Glu	Lys	Ile	Gln	
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351	Glu	Lys	Ala	Val	Lys	Arg	Glu	Asp	Leu	Phe	Ile	Val	Ser	Lys	Leu	Trp	
352						65				70					75		80
354	Pro	Thr	Phe	Phe	Glu	Arg	Pro	Leu	Val	Arg	Lys	Ala	Phe	Glu	Lys	Thr	
355						85				90					95		
357	Leu	Lys	Asp	Leu	Lys	Leu	Ser	Tyr	Leu	Asp	Val	Tyr	Leu	Ile	His	Trp	
358						100				105					110		
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361						115				120					125		
363	Gly	Asn	Ala	Ile	Gly	Gly	Lys	Ala	Thr	Phe	Leu	Asp	Ala	Trp	Glu	Ala	
364						130				135					140		
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367						145				150					155		160
369	Asn	Phe	Ser	His	Phe	Gln	Ile	Glu	Lys	Leu	Leu	Asn	Lys	Pro	Gly	Leu	
370						165				170					175		
372	Lys	Tyr	Lys	Pro	Val	Thr	Asn	Gln	Val	Glu	Cys	His	Pro	Tyr	Leu	Thr	
373						180				185					190		
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379						210				215					220		

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/653,681B

DATE: 07/15/2005

TIME: 12:24:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

**Raw Sequence Listing before editing,
for reference only**



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/653,681B

DATE: 07/14/2005

TIME: 12:29:14

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Output Set: N:\CRF4\07142005\J653681B.raw

3 <110> APPLICANT: DAI, KEN-SHWO
 5 <120> TITLE OF INVENTION: HUMAN ARL-RELATED GENE VARIANTS ASSOCIATED WITH CANCER
 7 <130> FILE REFERENCE: U014798-3
 9 <140> CURRENT APPLICATION NUMBER: 10/653,681B
 10 <141> CURRENT FILING DATE: 2003-09-02
 12 <160> NUMBER OF SEQ ID NOS: 6
 14 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

pp 13

Does Not Comply
with
Corrected Diskette Needle

287 <210> SEQ ID NO: 5						
289 <211> LENGTH: 1337						
291 <212> TYPE: DNA						
293 <213> ORGANISM: HOMO SAPIEN						
295 <220> FEATURE:						
297 <223> OTHER INFORMATION: HUMAN ARL GENE						
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303 ctggcactt	ggaagtctcc	tctcgccaaa	gtgaaagaag	cagtgaaggt	ggccattgtat	180
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320						
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321						
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322						
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E--> 323						

aaaaaaataa taatcat

sane error

sel P.3

10/653, 681B 3

aagatcaata 1320

taatcat

1380

1337

aaaaaaaataa

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/14/2005
PATENT APPLICATION: US/10/653,681B TIME: 12:29:15

Input Set : A:\U0147983 SEQUENCE LISTING.txt
Output Set: N:\CRF4\07142005\J653681B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:5; Line(s) 316,317,318,319,320,321,322,323

VERIFICATION SUMMARY DATE: 07/14/2005
PATENT APPLICATION: US/10/653,681B TIME: 12:29:15

Input Set : A:\U0147983 SEQUENCE LISTING.txt
Output Set: N:\CRF4\07142005\J653681B.raw

L:323 M:254 E: No. of Bases conflict, LENGTH:Input:1380 Counted:1337 SEQ:5